

What is claimed is:

- Sub A1
- 5
- 10
- 15
- 20
- 1) A duplex electrical connector comprising:
    - a) a housing having a cylindrical outbound end, a generally oval inbound end, and an interior channel linking said inbound and said outbound end;
    - b) one or more tubular spring steel cable retainers secured in said inbound end, each of said retainers including a set of inwardly extending tangs to receive and engage an armored cable inserted from said inbound end and guide said cable toward said cylindrical outbound end in a manner that separate cables are advanced to said outbound end without mutual interference, said inwardly extending tangs restricting removal of said cable by force applied on said cable from said inbound end; and
    - c) a tubular spring steel adapter secured to said cylindrical outbound end of said housing, said adapter having outwardly extending tangs capable of engaging the walls of an access hole in an electrical junction box.
  - 2) The duplex electrical connector of claim 1 wherein said retainers in said inbound end are secured by an insert which is secured within said inbound end of said housing, said insert is generally oval in shape and comprises a pair of parallel cylindrical apertures having an insertion end, a rearward end, and generally cylindrical interior walls with said retainers disposed in said cylindrical apertures, said cylindrical walls of said parallel cylindrical

apertures each including a threaded hole and a screw disposed laterally therein so that tightening of said screws will secure said retainers in said cylindrical apertures.

- 5 3) The duplex electrical connector of claim 1 wherein said retainers in said inbound end are secured by an insert which is secured within said inbound end of said housing, said insert is generally oval in shape and comprises a pair of parallel cylindrical apertures having an insertion end, a rearward end, and generally cylindrical interior walls with said retainers disposed in said cylindrical apertures, said cylindrical walls of said parallel cylindrical apertures each including an annular ridge near said rearward end for securing said retainers in said cylindrical apertures.

- 10 4) The duplex electrical connector of claim 1 wherein said inbound end of said housing includes a pair of parallel cylindrical apertures with generally cylindrical interior walls, said cylindrical walls including a plurality of tang accepting apertures, said retainers including a plurality of outward extending tangs that permit insertion of said retainers in a compressed state into said cylindrical apertures such that said tangs snap into said tang accepting apertures upon full insertion.

- 15 5) The duplex electrical connector of claim 4 wherein said housing includes a generally flat top surface and a viewing window in said top surface to allow viewing of cable routing within said housing.

- 20 6) The duplex electrical connector of claim 1 that includes a polymeric panel that may be snap fitted into or out of said viewing window as desired.

- 7) The duplex electrical connector of claim 1 wherein said interior channel linking said inbound and said outbound end includes a smooth surface.
- 8) The duplex electrical connector of claim 1 wherein said cylindrical outbound end includes a smooth outer circumference and a flange on its outermost end to retain said tubular spring steel adapter after said adapter is expanded and slipped over said flange.
- 9) The duplex electrical connector of claim 1 wherein said inwardly extending tangs in each of said cable retainers consist of three tangs spaced approximately  $90^\circ$  apart such that said tangs cover approximately  $180^\circ$  of the opening through each of said retainers and the remaining  $180^\circ$  is essentially open and defines a cable passageway.
- 10) The duplex electrical connector of claim 9 wherein said generally oval inbound end contains two cable retainers centered along a central axis dissecting the oval lengthwise with the first of said retainers having said cable passageway oriented approximately  $45^\circ$  away from the center of said inbound end and the second of said retainers having said cable passageway oriented approximately  $45^\circ$  away from the center in the opposite direction of said first retainer.

sub  
B5

00441.00201  
"05280" FET660